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Art A 2a

Recd ED 6/24/59

1300 mc

Jan. 9T

Hobbie: 453

FILE: ED 17813

Destructor Systems File

P. O. BOX 216 – STATION A
COLUMBUS, OHIO

June 22, 1959

Dear Sir:

In accord with your recent request, we are enclosing a handwritten log of the burning test which we discussed recently on the telephone. Also included are a few data which provide a basis of comparison between this test and the one conducted by you and Sully during your visit on June 12, 1959.

If you want any additional information, please do not hesitate to call on us.

Sincerely,

[redacted] 25X1

ABW/ba

In Duplicate

Enclosure

[redacted] 25X1

[redacted] 25X1

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1/15/59 (1)

Log of Test No. 69 June 15, 1959

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Time	Loadings: weight lb	Loadings: Material	Static pressures: Plenum Chamber "H2O	Static pressures: Combustion Chamber "H2O	Average temperature after loading, °F	Bed levels: inches below opening in liner	Remarks
Initial charge	20	Columbus tele. books					
	15	bag of file paper					
	15	[redacted] cards in box					25X1
	50	Total					
Start 2:05			0	0	80		
:08			1.5	-	750		good fire
:10	17	bag of file paper	4.2	-	750		
:12	14	box of [redacted] cards	4.2	1.1	750	12	25X1
:15	15	Col. tele. books	4.5	1.5	1000		
:17	19	bag of file paper	4.8	1.2	1100		
:20	14	box of cards	4.3	0.8	700		
:23	15	Col. tele books	4.2	1.2	700		
:25	19	bag of file paper	4.4	1.3	900		
:27	13	box of cards	4.5	1.2	900		Gray haze of fly ash, same as in past tests
:30	15	Chicago tele books	4.4	1.2	850		
:32	15	Col. tele books	4.6	1.3	1000		
:35	20	bag of file paper	4.6	1.3	950		
:38	15	box of cards	4.5	1.1	900		
:40	14	Col. tele books	4.8	1.4	1100		
:43	18	bag of file paper	4.7	1.4	1100		
:45	10	box of cards	4.7	1.2	1000		
:47	15	Col. tele. books	4.6	1.1	900		
:52	17	bag of file paper	4.4	1.0	850	14	
:56	14	box of cards	4.3	1.0	800		
3:00	15	Col. tele books	4.5	1.1	1000		
:03	15	Chicago tele books	4.5	1.1	900		
:08	19	bag of file paper	4.8	1.3	1100		
:10	14	box of cards	4.7	1.0	900		Noted cavities deep in bed
:11	15	Col. tele books	4.5	1.0	900		
:14	18	bag of file paper	4.7	1.3	950	12	
:18	20	[redacted]	4.5	1.2	1100		25X1
:21	15	Chicago tele books	4.5	1.0	900		
:24	15	Col. tele books	4.4	1.0	850		
[redacted]	13	box of cards	4.4	1.0	800		[redacted]
:27	13	Col tele books	4.3	0.9	700		
:29	15	Chicago tele books	4.6	1.3	1000		[redacted] fly ash
:31½	19	bag of file paper	4.7	1.3	1000		
:34	12	box of cards	4.5	1.3	900		
:36	14	Col. tele. book	4.6	1.3	1050		
:38½	15	Chicago tele books	4.7	1.5	1000		
41	10	box of cards	4.6	1.3	950		
:43½	15	Col. tele books	4.7	1.5	950	10	
:45½	20	[redacted]	4.8	1.5	1100		25X1
:47½	15	Chicago tele. books	4.9	1.5	1100		Noted paper burning on grid
:51	20½	bag of file paper	4.8	1.5	1100		
:53	14	box of cards	4.8	1.3	1000		
:56½	15	Col. tele books	4.7	1.4	950	10	
:59	15	Chicago tele. books	4.8	1.4	1050		
4:01½	17	bag of file paper	4.9	1.5	1050		
:04	14	box of cards	4.5	1.3	900		
:06½	15	Col. tele books	4.6	1.5	1000		
:09½	13	box of cards	4.5	1.5	900		
:12	15	Chicago tele. books	4.5	1.5	900		
:15	19	box of cards	4.5	1.0	850		
:17	20	bag of file paper	4.5	1.5	900		
:20	15	box of cards	4.5	1.0	900		
:23½	15	Col. tele books	-	-	1000		
:26	14	box of cards	4.5	1.4	900		
:28½	19	bag of file paper	4.5	1.2	900		
30½	12	box of cards	4.5	1.3	900		
32½	22	bag of file paper	-	-	1000	10	
35	14	box of cards	-	-	950		
37½	19	bag of file paper	4.6	1.3	950		
40	15	Col. tele. books	4.6	1.1	1050		
43	15	" " "	-	-	1000		
46	23	bag of file paper *	4.5	1.0	950		
51½	20	[redacted] tele. dir.	4.8	1.0	1000	8	No flame out stack during entire test. Grid was red hot several times. 25X1
56	20	" " "	4.8	1.0	1150		
5:00	11½	bag of file paper	4.7	1.3	1000		
:03½	21	" " "	4.6	1.0	850		
:07½	26	" " "	4.5	1.0	900		
:11	17	" " "	4.5	1.1	900	12	
:16	20	[redacted] tele. dir.	4.5	1.1	1000	8	25X1
:29			4.0	0.9	600		
:27			4.0	0.8	370		Increased opening of air damper
:42			4.1	0.6	180		
:46		CONFIDENTIAL	-	-	150		Poked residue.
End 5:50					900 approx.		Fly ash increased.

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Material Burned

	Initial charge lb	Loadings No.	Loadings lb	Total lb	
Bags of file paper	15	20*	382	397	
Boxes of [redacted] cards	15	18	239	254	25X1
Columbus telephone books	20	16	236	256	
Chicago telephone books	–	8	120	120	
[redacted] telephone directories	–	5	100	100	25X1
	50		1077	1127	

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* Six of these bags (loaded near the end of the test) contained the same kind of paper used in previous test No 68 on 6-12-59. The other 12 bags were filled partly with report type paper which was available, and the balance (165 lb) made up from whole and sectioned Columbus telephone books. The additional weight of (1127 – 1038) = 89 lbs compared to Test 68 was Chicago telephone books. Otherwise the charge material was the same as that used in Test 68. No coke briquettes used in Test 69.

Average burning rate

2:05 pm to 5:50 pm = 3.75 hr

$1127 / 3.75 = 300$ lb per hour Test 69

$1038 / 3.67 = 283$ lb per hour Test 68

Residue at end

Test 69	9 lb	Three fist-size pieces of fused ash one fist-size piece of char Several small pieces of paper and charred paper
Test 68	16 lb	Several clumps of fused ash of lacy structure Several small pieces of paper and charred paper

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[redacted] 25X1

6-17-59

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